

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/873,106

DATE: 07/06/2001

TIME: 12:20:49

Input Set : A:\cpg.txt

Output Set: N:\CRF3\07062001\I873106.raw

4 <110> APPLICANT: Reinherz, Ellis L.  
 5 Freund, Christian  
 6 Li, Jing  
 7 Nishizawa, Kazuhisa  
 8 Wagner, Gerhard  
 10 <120> TITLE OF INVENTION: Cloning and Characterization of a CD2  
 11 Binding Protein (CD2BP2)  
 14 <130> FILE REFERENCE: 1062.1021-004  
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/873,106  
 C--> 16 <141> CURRENT FILING DATE: 2001-06-01  
 16 <150> PRIOR APPLICATION NUMBER: US 60/111,007  
 17 <151> PRIOR FILING DATE: 1998-12-04  
 19 <150> PRIOR APPLICATION NUMBER: US 60/115,647  
 20 <151> PRIOR FILING DATE: 1999-01-13  
 22 <150> PRIOR APPLICATION NUMBER: PCT/US99/26993  
 23 <151> PRIOR FILING DATE: 1999-11-15  
 25 <160> NUMBER OF SEQ ID NOS: 25  
 27 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 1299  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: Homo sapiens  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: CDS  
 36 <222> LOCATION: (121)...(1143)  
 38 <400> SEQUENCE: 1  
 39 agtcctcttc cgggtgatgg cggcggtg cccggatgta gccctggcgc aagcatctct 60  
 40 tcttttttcc acctcgctt cgcggattc ccagcttgag aaacacctct ttgccccgtc 120  
 41 atg cca aag agg aaa gtg acc ttc caa ggc gtg gga gat gag gag gat 168  
 42 Met Pro Lys Arg Lys Val Thr Phe Gln Gly Val Gly Asp Glu Glu Asp  
 43 1 5 10 15  
 45 gag gat gaa atc att gtc ccc aag aag aag ctg gtg gac cct gtg gct 216  
 46 Glu Asp Glu Ile Ile Val Pro Lys Lys Lys Leu Val Asp Pro Val Ala  
 47 20 25 30  
 49 ggg tca ggg ggt cct ggg agc cgc ttt aaa ggc aaa cac tct ttg gat 264  
 50 Gly Ser Gly Gly Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp  
 51 35 40 45  
 53 agc gat gag gag gag gat gat gat gat ggg ggg tcc agc aaa tat gac 312  
 54 Ser Asp Glu Glu Glu Asp Asp Asp Asp Gly Gly Ser Ser Lys Tyr Asp  
 55 50 55 60  
 57 atc ttg gcc tca gag gat gta gaa ggt cag gag gca gcc aca ctc ccc 360  
 58 Ile Leu Ala Ser Glu Asp Val Glu Gly Gln Glu Ala Ala Thr Leu Pro  
 59 65 70 75 80  
 61 agc gag ggg ggt ggt cgg atc aca ccc ttt aac ctg cag gag gag atg 408  
 62 Ser Glu Gly Gly Gly Arg Ile Thr Pro Phe Asn Leu Gln Glu Glu Met  
 63 85 90 95  
 65 gag gaa ggc cac ttt gat gcc gat ggc aac tac ttc ctg aac cgg gat 456

Does Not Comply  
 Corrected Diskette Needed

See p.5

After an initial  
 correction of  
 format errors,  
 (second copy  
 attached) the  
 sequence listing  
 was found to still  
 be errored.

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Input Set : A:\cpg.txt

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```
66 Glu Glu Gly His Phe Asp Ala Asp Gly Asn Tyr Phe Leu Asn Arg Asp
67          100          105          110
69 gct cag atc cga gac agc tgg ctg gac aac att gac tgg gtg aag atc      504
70 Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile Asp Trp Val Lys Ile
71          115          120          125
73 cgg gag cgg cca cct ggc cag cgc cag gcc tca gac tcg gag gag gag      552
74 Arg Glu Arg Pro Pro Gly Gln Arg Gln Ala Ser Asp Ser Glu Glu Glu
75          130          135          140
77 gac agc ttg ggc cag acc tca atg agt gcc caa gcc ctc ttg gag gga      600
78 Asp Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly
79 145          150          155          160
81 ctt ttg gag ctc cta ttg cct aga gag aca gtg gct ggg gca ctg agg      648
82 Leu Leu Glu Leu Leu Pro Arg Glu Thr Val Ala Gly Ala Leu Arg
83          165          170          175
85 cgt ctg ggg gcc cga gga gga ggc aaa ggg aga aag ggg cct ggg caa      696
86 Arg Leu Gly Ala Arg Gly Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln
87          180          185          190
89 ccc agt tcc cct cag cgc ctg gac cgg ctc tcc ggg ttg gcc gac cag      744
90 Pro Ser Ser Pro Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln
91          195          200          205
93 atg gtg gcc cgg ggc aac ctt ggt gtg tac cag gaa aca agg gaa cgg      792
94 Met Val Ala Arg Gly Asn Leu Gly Val Tyr Gln Glu Thr Arg Glu Arg
95          210          215          220
97 ttg gct atg cgt ctg aag ggt ttg ggg tgt cag acc cta gga ccc cac      840
98 Leu Ala Met Arg Leu Lys Gly Leu Gly Cys Gln Thr Leu Gly Pro His
99 225          230          235          240
101 aat ccc aca ccc cca ccc tcc ctg gac atg ttc gct gag gag ttg gcg      888
102 Asn Pro Thr Pro Pro Ser Leu Asp Met Phe Ala Glu Glu Leu Ala
103          245          250          255
105 gag gag gaa ctg gag acc cca acc cct acc cag aga gga gaa gca gag      936
106 Glu Glu Glu Leu Glu Thr Pro Thr Pro Thr Gln Arg Gly Glu Ala Glu
107          260          265          270
109 tcg cgg gga gat ggt ctg gtg gat gtg atg tgg gaa tat aag tgg gag      984
110 Ser Arg Gly Asp Gly Leu Val Asp Val Met Trp Glu Tyr Lys Trp Glu
111          275          280          285
113 aac acg ggg gat gcc gag ctg tat ggg ccc ttc acc agc gcc cag atg      1032
114 Asn Thr Gly Asp Ala Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met
115          290          295          300
117 cag acc tgg gtg agt gaa ggc tac ttc ccg gac ggt gtt tat tgc cgg      1080
118 Gln Thr Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg
119 305          310          315          320
121 aag ctg gac ccc cct ggt ggt cag ttc tac aac tcc aaa cgc att gac      1128
122 Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp
123          325          330          335
125 ttt gac ctc tac acc tgagcctgct gggggcccag tttggtgggc ccttctttcc      1183
126 Phe Asp Leu Tyr Thr
127          340
129 tggactttgt ggaggaggca ccaagtgtct caggcagcga ggaaattgga ggccattttt      1243
130 cagtcaattt ccctttccca ataaaagcct tagttgtgta aaaaaaaaaa aaaaaa      1299
```

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Input Set : A:\cpg.txt

Output Set: N:\CRF3\07062001\I873106.raw

132 <210> SEQ ID NO: 2  
133 <211> LENGTH: 341  
134 <212> TYPE: PRT  
135 <213> ORGANISM: Homo sapiens  
137 <400> SEQUENCE: 2  
138 Met Pro Lys Arg Lys Val Thr Phe Gln Gly Val Gly Asp Glu Glu Asp  
139 1 5 10 15  
140 Glu Asp Glu Ile Ile Val Pro Lys Lys Lys Leu Val Asp Pro Val Ala  
141 20 25 30  
142 Gly Ser Gly Gly Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp  
143 35 40 45  
144 Ser Asp Glu Glu Glu Asp Asp Asp Gly Gly Ser Ser Lys Tyr Asp  
145 50 55 60  
146 Ile Leu Ala Ser Glu Asp Val Glu Gly Gln Glu Ala Ala Thr Leu Pro  
147 65 70 75 80  
148 Ser Glu Gly Gly Gly Arg Ile Thr Pro Phe Asn Leu Gln Glu Glu Met  
149 85 90 95  
150 Glu Glu Gly His Phe Asp Ala Asp Gly Asn Tyr Phe Leu Asn Arg Asp  
151 100 105 110  
152 Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile Asp Trp Val Lys Ile  
153 115 120 125  
154 Arg Glu Arg Pro Pro Gly Gln Arg Gln Ala Ser Asp Ser Glu Glu Glu  
155 130 135 140  
156 Asp Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly  
157 145 150 155 160  
158 Leu Leu Glu Leu Leu Leu Pro Arg Glu Thr Val Ala Gly Ala Leu Arg  
159 165 170 175  
160 Arg Leu Gly Ala Arg Gly Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln  
161 180 185 190  
162 Pro Ser Ser Pro Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln  
163 195 200 205  
164 Met Val Ala Arg Gly Asn Leu Gly Val Tyr Gln Glu Thr Arg Glu Arg  
165 210 215 220  
166 Leu Ala Met Arg Leu Lys Gly Leu Gly Cys Gln Thr Leu Gly Pro His  
167 225 230 235 240  
168 Asn Pro Thr Pro Pro Pro Ser Leu Asp Met Phe Ala Glu Glu Leu Ala  
169 245 250 255  
170 Glu Glu Glu Leu Glu Thr Pro Thr Pro Thr Gln Arg Gly Glu Ala Glu  
171 260 265 270  
172 Ser Arg Gly Asp Gly Leu Val Asp Val Met Trp Glu Tyr Lys Trp Glu  
173 275 280 285  
174 Asn Thr Gly Asp Ala Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met  
175 290 295 300  
176 Gln Thr Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg  
177 305 310 315 320  
178 Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp  
179 325 330 335  
180 Phe Asp Leu Tyr Thr  
181 340

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DATE: 07/06/2001  
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Input Set : A:\cpg.txt  
Output Set: N:\CRF3\07062001\I873106.raw

```
184 <210> SEQ ID NO: 3
185 <211> LENGTH: 26
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
189 <400> SEQUENCE: 3
190 Gly Asp Ala Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met Gln Thr
191 1 5 10 15
192 Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly
193 20 25
196 <210> SEQ ID NO: 4
197 <211> LENGTH: 27
198 <212> TYPE: PRT
199 <213> ORGANISM: Caenorhabditis elegans
201 <400> SEQUENCE: 4
202 Gly Pro Asp Ser Glu Lys Tyr Gly Pro Tyr Met Ser Lys Asp Met Leu
203 1 5 10 15
204 Phe Trp Leu Gln Ala Gly Tyr Phe Asn Asp Gly
205 20 25
208 <210> SEQ ID NO: 5
209 <211> LENGTH: 27
210 <212> TYPE: PRT
211 <213> ORGANISM: Caenorhabditis elegans
213 <400> SEQUENCE: 5
214 Asp Pro Thr Glu Thr Arg Arg Gly Pro Phe Pro Lys Asp Gln Met Asn
215 1 5 10 15
216 Val Trp Phe Lys Ala Gly Tyr Phe Thr Asp Glu
217 20 25
220 <210> SEQ ID NO: 6
221 <211> LENGTH: 27
222 <212> TYPE: PRT
223 <213> ORGANISM: Caenorhabditis elegans
225 <400> SEQUENCE: 6
226 Asp Asp Arg Gly Thr Val Gln Gly Pro Tyr Gly Ala Ser Thr Val Leu
227 1 5 10 15
228 Asp Trp Tyr Gln Lys Gly Tyr Phe Ser Asp Asn
229 20 25
232 <210> SEQ ID NO: 7
233 <211> LENGTH: 29
234 <212> TYPE: PRT
235 <213> ORGANISM: Saccharomyces cerevisiae
237 <400> SEQUENCE: 7
238 Asp Thr Gln Gly Gln Ile His Gly Pro Phe Thr Thr Gln Met Met Ser
239 1 5 10 15
240 Gln Trp Tyr Ile Gly Gly Leu Glu Tyr Phe Ala Ser Thr
241 20 25
244 <210> SEQ ID NO: 8
245 <211> LENGTH: 27
246 <212> TYPE: PRT
247 <213> ORGANISM: Saccharomyces cerevisiae
```

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TIME: 12:20:49

Input Set : A:\cpg.txt  
Output Set: N:\CRF3\07062001\I873106.raw

249 <400> SEQUENCE: 8  
250 Asp Ser Asn Gly Asn Ile Gln Gly Pro Phe Gly Thr Asn Asn Met Ser  
251 1 5 10 15  
252 Gln Trp Tyr Gln Gly Gly Tyr Phe Thr Pro Thr  
253 20 25  
256 <210> SEQ ID NO: 9  
257 <211> LENGTH: 17  
258 <212> TYPE: PRT  
259 <213> ORGANISM: Artificial Sequence  
261 <220> FEATURE:  
262 <223> OTHER INFORMATION: Motif in CD2 binding region of CD2BP2  
265 <221> NAME/KEY: VARIANT  
266 <222> LOCATION: (1)...(2)  
267 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
269 <221> NAME/KEY: VARIANT  
270 <222> LOCATION: (3)...(3) /  
271 <223> OTHER INFORMATION: Xaa can be Tyr or Phe  
273 <221> NAME/KEY: VARIANT  
274 <222> LOCATION: (4)...(7) /  
275 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
277 <221> NAME/KEY: VARIANT  
278 <222> LOCATION: (8)...(8) /  
279 <223> OTHER INFORMATION: Xaa can be Met or Val  
281 <221> NAME/KEY: VARIANT  
282 <222> LOCATION: (9)...(15) /  
283 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
285 <400> SEQUENCE; 9  
W--> 286 Gly Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Gly Thr  
287 1 5 10 15  
288 Phe  
292 <210> SEQ ID NO: 10  
293 <211> LENGTH: 6  
294 <212> TYPE: PRT  
295 <213> ORGANISM: Artificial Sequence  
297 <220> FEATURE:  
298 <223> OTHER INFORMATION: CD2BP2 binding region  
301 <400> SEQUENCE: 10  
302 Pro Pro Pro Gly His Arg  
303 1 5  
306 <210> SEQ ID NO: 11  
307 <211> LENGTH: 70  
308 <212> TYPE: PRT  
309 <213> ORGANISM: Homo sapiens  
311 <400> SEQUENCE: 11  
312 Pro Pro Pro Pro Pro Gly His Arg Ser Gln Ala Pro Ser His Arg Pro  
313 1 5 10 15  
314 Pro Pro Pro Gly His Arg Val Gln His Gln Pro Gln Lys Arg Pro Pro  
315 20 25 30  
316 Ala Pro Ser Gly Thr Gln Val His Gln Gln Lys Gly Pro Pro Leu Pro

Position 1, 2 are  
not Xaa's.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/873,106

DATE: 07/06/2001

TIME: 12:20:50

Input Set : A:\cpg.txt

Output Set: N:\CRF3\07062001\I873106.raw

/ L:16 M:270 C: Current Application Number differs, Replaced Current Application No  
/ L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
/ L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9